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MING ORG. REPORT NUMBER		
ACT OR GRANT NUMBER(s)		
8-77-C-0080		
PAM FLEMENT, PROJECT, TASK A WORK UNIT NUMBERS F 9AD		
y 1979		
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SSIFIED		
ASSIFICATION DOWNGRADING		

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identity by block number)

Windspeed Modeling

Weibull distribution

Climatology

Climatic probability

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Models are given for the probability of a windspeed greater than an arbitrary value, for each of 25 stations. The two parameter Weibull model is used.

Separate sets of parameters are given for each station for each month and for each of the eight 3-hour periods of the day. Measures of 'goodness' of the models are given.

DD 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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# 1. INTRODUCTION

Weather records have been kept for many stations throughout the world over long periods of time. For many purposes it is useful to be able to estimate the climatic probability that the reading for a weather element will exceed a specified level at a given location and time. Such estimates can be made by retrieval and tabulation of appropriate records. This can be a slow, costly, and cumbersome process.

Another procedure is to model the probability density functions (histogram) of the readings of a weather element for the location and time of interest. With such a model, the probabilities can be estimated as desired without any further recourse to weather records.

In this report we make use of the Weibull probability distribution to model the data at several locations. The data used to develop the models was extracted from the "Revised Uniform Summary of Weather Observations" (RUSSWO'S) prepared by the Data Processing Division of the Air Weather Service, or the "Summary of Meteorological Observations, Surface" (SMOS) prepared by the Naval Weather Service Detachment. In general, for each of the stations, 96 models are developed, one for each three-hour period of the day for each of the twelve months.

# 2. MODELING FOR WINDSPEED

In general, data of a given type can be modeled by the use of several different probability distributions. For example, one can usually fit a Pearson or a Johnson curve to data with reasonably good results.

In the present study we use the Weibull family of curves. There are a number of reasons for the choice. One is that the Weibull distribution in general gives good fits. Another is that the Weibull cumulative distribution function is in closed form. This is very useful, since the required estimated probabilities can be obtained by direct substitution into the Weibull cumulative distribution function, and no numerical integration or tables are required.

The cumulative distribution function for the Weibull is given by

$$F(x) = 1 - e^{-\alpha x^{\beta}} \qquad \alpha, \beta > 0, x \ge 0.$$

The constants  $\alpha$  and  $\beta$  are parameters of the Weibull distribution. The records for many stations indicated a fairly high probability of "calm", and to obtain good fits using the Weibull distribution, it was found necessary to use a mixed distribution. Using c as the probability of calm, then, if x is windspeed in knots, the probability of a windspeed less than or equal to x is estimated by

$$F(x) = c + (1-c) \left[ 1 - e^{-\alpha} x^{\beta} \right]$$

Separate values are estimated for  $\alpha,\beta,c$  for each station, for each three-hour period, for each month. Parameters for the model for 24 stations at diverse locations are given in Section 6.

# 3. ESTIMATION OF THE PARAMETERS OF THE MODEL

The value of c was taken to be the empirical probability of calm as given from the data, and the Weibull distribution was fitted to the remainder of the data.

A standard method of estimation of the parameters of the Weibull distribution from a sample of size n is by an iterative solution of the maximum likelihood equations. The maximum likelihood equations are

$$n/\alpha - \sum x \frac{\beta}{i} = 0$$

and

$$\beta = \left[ \frac{\sum \mathbf{x_i^{\beta} ln \ x_i}}{\sum \mathbf{x_i^{\beta}}} - \frac{\sum ln \ x_i}{n} \right]^{-1}$$

The second equation is solved iteratively for  $\beta$ . Substituting this value of  $\beta$  in the first equation, the solution for  $\alpha$  can be obtained.

Instead of using the method of maximum likelihood to estimate  $\alpha$  and  $\beta$ , the following method was used.\* The values for the empirical cumulative distribution were regressed on the Weibull cumulative distribution function. Thus the resulting values for  $\alpha$  and  $\beta$  were those which minimized the sum of the squares of the differences between the theoretical cumulative distribution (Weibull) and the empirical cumulative distribution. This is the same as choosing those values of  $\alpha$  and  $\beta$  which minimize the sum of the squares of the differences between the empirical probabilities and the model theoretical probabilities. Since our object is not to estimate  $\alpha$  and  $\beta$  for their own sake, but only as a means of obtaining probabilities, the method has considerable intuitive appeal. It does indeed have a number of desirable properties which the authors intend to develop in a separate publication at some later date.

<sup>\*</sup> A more detailed description of the method is planned for Scientific Report Number 8 to be titled "Use of Non-linear Regression to Estimate a Cumulative Distribution Function."

Figure 3.1 illustrates the use of the method using windspeed data from Manila for September, 0700 hours. The fitted curve is the Weibull cumulative distribution function for which the sum of the squares of the differences between the fitted curve and the empirical cumulative distribution function is smallest. (The differences are taken at 3.5, 6.5, 10.5, 16.5, 21.5, 27.5, 33.5, 40.5, 47.5, and 55.5 knots. These are the endpoints of the intervals into which the data were summarized in the RUSSWO'S.)

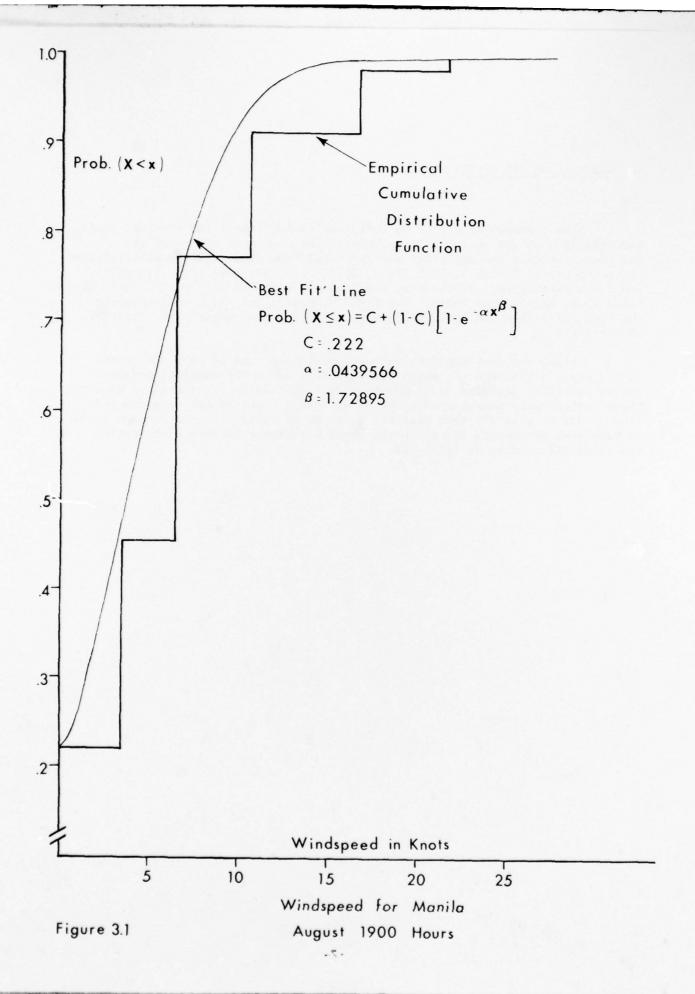
Table 3.1 gives the observed and fitted values for the same station and hours.

	0	3.5	6.5	10.5	16.5	21.5	27.5	33.5	40.5	47.5	55.5
OBSERVED	.222	.453	.773	.912	.994	.999	1.000	1.000	1.000	1.000	1.000
FIT	.222	.470	.746	.940	.997	1.000	1.000	1.000	1.000	1.000	1.000

TABLE 3.1

Observed and Fitted Values For Prob(X≤x)

X is Windspeed (Knots) For Manila 0700 Hrs. September



### 4. GOODNESS OF FIT OF THE MODELS

The goodness of fit of an individual model (specified station, month, and time of day) was measured in two ways. The root mean square of the difference between the empirical and the model cumulative distribution functions at windspeeds of 3.5, 6.5, 10.5, 16.5, 21.5, 27.5, 33.5, 40.5, 47.5, and 55.5 knots was calculated. Tables 4.1, 4.2, and 4.3 show the root mean square values for Balboa, Manila, and Thule. The fits for Manila are about average while the fits for Balboa and Thule represent the "best" and "worst", respectively, of the fits.

Also, for each station, for each month and time of day, the number of the above windspeeds for which the empirical and model cumulative distribution functions differed by at least .01 was calculated. For a given station these numbers were averaged over the 96 different combinations of month and time of day to give for each station, as shown in Table 4.4, the average number of tabulated windspeeds for which the above difference between distribution functions differed by at least .01.

TABLE 4.1

# Hour of Day

Month of Year	0100	0400	0700	1000	1300	1600	1900	2200
or rear	0100	0400	0700	1000	1300	1000	1900	2200
1.	.001	.002	.000	.007	.005	.006	. 002	.000
2.	.000	.001	.001	.006	.004	.003	.000	.000
3.	.001	.001	.001	.006	.004	.065	.003	.000
4.	.001	.001	.001	.008	.004	.005	.003	.001
5.	.000	.000	.002	.003	.003	.001	.001	.001
6.	.001	.001	.000	.001	.003	.000	.002	.002
7.	.000	.000	.001	.002	.001	.002	.002	.000
8.	.000	.000	.001	.001	.001	.002	.000	.000
9.	.001	.002	.000	.002	.005	.000	.000	.000
10.	.001	.001	.002	.002	.004	.000	.001	.002
11.	.001	.001	.001	.002	.002	.003	.002	.000
12.	.000	.000	.001	.002	.003	.006	.000	.000

RMS of individual fits for Balboa

WINDSPEED

TABLE 4.2

# Hour of Day

0100	0400	0700	1000	1300	1600	1900	2200
.006	.012	.009	.009	.025	.025	.010	.009
.012	.012	.016	.013	.020	.022	.018	.016
.016	.013	.018	.016	.015	.020	.020	.014
.018	.017	.017	.017	.010	.014	.020	.016
.010	.005	.004	.006	.009	.020	.020	.014
.008	.006	.003	.015	.013	.016	.010	.009
.008	.005	.007	.012	.023	.012	.013	.013
.008	.008	.003	.012	.026	.015	.017	.011
.009	.004	.003	.019	.027	.007	.015	.010
.007	.009	.010	.013	.024	.021	.010	.010
.012	.011	.006	.013	.022	.015	.011	.012
.003	.007	.003	.010	.031	.016	.013	.006
	.006 .012 .016 .018 .010 .008 .008 .008 .009	.006 .012 .012 .012 .016 .013 .018 .017 .010 .005 .008 .006 .008 .005 .008 .008 .009 .004 .007 .009	.006 .012 .009 .012 .012 .016 .016 .013 .018 .018 .017 .017 .010 .005 .004 .008 .006 .003 .008 .005 .007 .008 .008 .003 .009 .004 .003 .007 .009 .010 .012 .011 .006	.006 .012 .009 .009 .012 .012 .016 .013 .016 .013 .018 .016 .018 .017 .017 .017 .010 .005 .004 .006 .008 .006 .003 .015 .008 .005 .007 .012 .008 .008 .003 .012 .009 .004 .003 .019 .007 .009 .010 .013 .012 .011 .006 .013	.006 .012 .009 .009 .025 .012 .012 .016 .013 .020 .016 .013 .018 .016 .015 .018 .017 .017 .017 .010 .010 .005 .004 .006 .009 .008 .006 .003 .015 .013 .008 .005 .007 .012 .023 .008 .008 .003 .012 .026 .009 .004 .003 .019 .027 .007 .009 .010 .013 .024 .012 .011 .006 .013 .022	.006 .012 .009 .009 .025 .025 .012 .012 .016 .013 .020 .022 .016 .013 .018 .016 .015 .020 .018 .017 .017 .017 .010 .014 .010 .005 .004 .006 .009 .020 .008 .006 .003 .015 .013 .016 .008 .005 .007 .012 .023 .012 .008 .008 .003 .012 .026 .015 .009 .004 .003 .019 .027 .007 .007 .009 .010 .013 .024 .021 .012 .011 .006 .013 .022 .015	.006 .012 .009 .009 .025 .025 .010 .012 .012 .016 .013 .020 .022 .018 .016 .013 .018 .016 .015 .020 .020 .020 .018 .017 .017 .017 .010 .014 .020 .010 .005 .004 .006 .009 .020 .020 .020 .008 .006 .003 .015 .013 .016 .010 .008 .005 .007 .012 .023 .012 .013 .008 .008 .003 .012 .026 .015 .017 .009 .004 .003 .019 .027 .007 .015 .007 .009 .010 .013 .024 .021 .010 .012 .011 .006 .013 .022 .015 .011

RMS of individual fits for Manila

WINDSPEED

TABLE 4.3

# Hour of Day

Month								
of Year	0100	0400	0700	1000	1300	1600	1900	2200
1.	.031	.031	.032	.036	.031	.033	.033	.030
2.	.037	.034	.032	.031	.028	.034	.031	.028
3.	.028	.035	.034	.036	.043	.037	. 028	.026
4.	.018	.024	.032	.028	.031	.028	.030	.023
5.	.027	.027	.025	.029	.032	.034	.033	.026
6.	.026	.029	.035	.045	.045	.045	.040	.032
7.	.028	.025	.029	.041	.045	.039	.033	.028
8.	.031	.023	.018	.028	.042	.039	.024	.020
9.	.032	.031	.028	.031	.026	.021	.021	.030
10.	.025	.023	.025	.022	.027	.024	.029	.026
11.	.026	.026	.024	.023	.030	.029	.028	.026
12.	.025	.021	.023	.022	.025	.024	.024.	.020

RMS of individual fits for Thule AFB

WINDSPEED

TABLE 4.4

Station		Station		Station		
Ascension	1.42	Honolulu	1.59	Patrick AFB	1.18	
Balboa	.19	Lajes	3.15	Saigon	.82	
Bangor	2.31	Manila	2.65	Scott AFB	2.43	
Bedford	2.86	McMurdo	3.03	Shemya	2.07	
Bermuda	1.45	Midway	1.00	Thule	5.35	
Christchurch	2.43	Mildenhall	1.36	Torrejon	1.49	
Furmaki	2.78	Nenana	1.88	Tripoli	3.38	
Goose	1.73	Okinawa	3.65	Wake	1.49	
Hill	3.81					

Average No. of Tabulated Windspeeds
(Over 96 Months By Time of Day Combinations)
For Which Empirical and Model Probabilities
Differ By at Least .01

#### 5. USE OF MODELS

Suppose one wishes to find the probability that the windspeed is less than 20, 10.5, 10, 6.5, and 5 knots at Goose in September at 1900 hours. Using the appropriate table in Section 6, we find that c = .054,  $\alpha$  = .0285801,  $\beta$  = 1.68269. Substituting these values into the model

Prob 
$$\left[X < x\right] = c + (1-c) \left(1 - e^{-\alpha x}\right)^{\beta}$$

we estimate the required probabilities at .989, .788, .761, .514, and .384.

We can compare these with the empirical probabilities of the RUSSWO for 10.5 and 6.5 knots. The values are .795 and .511, respectively, and compare favorably with the model values of .788 and .514.

It should be noted that our modeling procedure can be used to estimate  $P\left[X < x\right]$  for any value of x (windspeed), and not just the values of the end points of the intervals listed in the RUSSWO's.

6. TABLES OF COEFFICIENTS OF INDIVIDUAL MODELS

#### ASCENSION ISLAND AAFB

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.002 .0000936794 3.45358	.0000964554	0.007 .0000494931 3.70538	0.001 3.2863E-07 5.2686	3.3165E-08 5.9378	0.001 5.0004E-08 5.8549	6.8529E-07 4.98068	0.003 .0000153643 4.01015
FEB								
CALM ALPHA BETA	0.011 .0000582498 3.65744	0.012 0.000126379 3.41347	0.008 .0000601262 3.61854	7.7544E-07 4.96696	8.6459E-08 5.60375	7.5394E-08 5.7146	.0000038215 4.48906	0.011 .0000119719 4.11973
MARCH								
CALM ALPHA BETA	0.002 .0000656487 3.60332		0.004 .0000177049 4.02237	1.7380E-07 5.40863	0.001 3.7161E-08 5.83769	0.001 1.8397E-07 5.37293	.0000031106 4.54894	0.001 .0000124851 4.1174
APRIL								
CALM ALPHA BETA	0.001 .0000027831 4.58606	.0000090004	0.002 .0000060004 4.29732	2.8529E-08 5.9126	2.8932E-09 6.65782	1.2405E-08 6.25005	1.8388E-07 5.43719	.0000018158 4.65791
MAY								
CALM ALPHA BETA	0.001 .0000103382 4.15461	0.006 .0000338681 3.76614	0.005 .0000102123 4.11504	0.001 1.8153E-07 5.32287	2.2282E-08 5.94326	1.4289E-07 5.3868	5.1768E-07 5.09532	0.001 .0000040029 4.42754
JUNE								
CALM ALPHA BETA	0.001 0.00003301 3.68973	.0000432648	0.002 .0000274708 3.77099	0 1.4610E-07 5.3868	0 2.5467E-09 6.6946	4.1704E-08 5.79401	.0000014786 4.66093	0.001 .0000056271 4.24129
JULY								
CALM ALPHA BETA	.0000159067 3.91667	0.001 .0000252375 3.80032	0.004 .0000141038 3.98322	4.8293E-07 4.96467	0 1.0172E-07 5.42041	0 2.1189E-07 5.22969	.0000012428 4.72387	0.001 .0000025781 4.47892
AUG								
CALM ALPHA BETA	0.001 .0000344584 3.6389	.0000330544	0.002 .0000254669 3.76038	0.00000187 4.50354	0.000001203 4.60611		0.001 .0000060009 4.18786	0.004 .0000105958 4.02531
SEPT								
CALM ALPHA BETA	0.002 0.000016458 4.0229	0.002 .0000389032 3.73254	0.002 .0000205966 3.95816	.0000013008 4.78115	0 3.4442E-07 5.1656	7.3408E-07 4.96186	.0000036205 4.48694	.0000105116 4.11122
ост								
CALM ALPHA BETA	.0000138617 4.06802	0.001 .0000265227 3.91351	0.001 .0000153065 4.09047	0.001 .0000013732 4.73887	0.001 8.3137E-08 5.6729	0 2.2384E-07 5.4136	.0000019255 4.69927	.0000044879 4.43371
NOV								
CALM ALPHA BETA	.0000089865 4.24154	.0000218642 3.98675	.0000056512 4.42307	1.0339E-07	1.6564E-08	2.7684E-08		
DEC								
CALM ALPHA BETA	.0000259017 3.89356	.0000760788	.0000119995	3.3875E-07	2.3624E-08	8.3507E-08	.0000031067	

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# PARAMETERS FOR WEIBULL, MODELS OF WINLSPEED BALEDOA CANAL ZONE/ALBROOK AFB

CALM 0.18 0.221 0.212 0.053 0.023 0.021 ALPHA 0.0271404 0.0374497 0.0361776 0.00874987 0.00186562 0.00239762 0.0	18-20 21-23 0.068 0.136 10425 0.0246348 57803 2.33771
BETA 2.3862 2.20833 2.2154 2.39029 2.88007 2.81317 2.	
BETA 2.3862 2.20833 2.2154 2.39029 2.88007 2.81317 2.	
cca	
CMLH 01110 01110 01110	0.032 0.081
	9462 0.0121743 86894 2.61812
MARCH	
	0.023 0.061 46762 0.0127587
	84088 2.51907
APRIL	
	0.049 0.096
	62845 2.6243
MAY	
	0.153 0.276 15779 0.053462
	05879 1.96164
JUNE	
	0.189 0.32 10851 0.0899721
	08353 1.78535
AULY	
	0.141 0.252
0.0134763 0.0	36658 0.0403242 02453 2.16656
AUG	
	0.126 0.213
0.03	04513 0.0551794 04513 2.03907
SEPT	
CALM 0.43 0.447 0.383 0.109 0.04 0.071 ALPHA 0.154451 0.167859 0.128492 0.0324505 0.0114175 0.0181502 0.0	0.2 0.372
DETA	75445 0.136079 78755 1.60247
ост	
	0.222 0.369
DETA 1 21277 1.1277 1.1277 0.0273003 0.07	35134 0.178216 63504 1.35733
NOV	
CALM 0.33 0.355 0.289 0.099 0.055 0.076 ALPHA 0.0894327 0.097261 0.0992691 0.0295337 0.0124968 0.0255336 0.04	0.189 0.268 98184 0.0724259
DETA : 1 04740 1 07747 1 74700 7 444	98184 0.0724259 01104 1.95038
DEC	
CALM 0.242 0.282 0.246 0.088 0.045 0.051 ALPHA 0.0424086 0.0413597 0.083704 0.0280137 0.013844 0.013847	0.113 0.189
0.0424086 0.0613597 0.083704 0.0290133 0.0133946 0.0163335 0.02	98081 0.0458821 26279 2.13448

# PARAMETERS FOR WEIBULL MODELS OF WINDSPEED BANGOR MAINE/DOW AFB

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.235 0.014952 1.85718	0.204 0.0193394 1.75653	0.0199202	0.0106064	0.00728209	0.0151282	0.156 0.0183763 1.73751	0.0188742
FEB								
CALM ALPHA BETA	0.221 0.0199016 1.78341	0.226 0.016436 1.85938		0.145 0.00940595 1.89338	0.088 0.00683337 1.97429	0.0104652	0.14 0.0151482 1.81389	
MARCH				•				
CALM ALPHA BETA	0.193 0.0170216 1.89192	0.0161962	0.168 0.0148203 1.85576	0.095 0.00741792 1.97175		0.00476008	0.00905154	
APRIL								
CALM ALPHA BETA	0.246 0.0128118 2.07996			0.0056457			0.085 0.00645854 2.2764	
HAY								
CALM ALPHA BETA	0.226 0.0251453 1.95725	0.27 0.0259944 1.91256		0.00496062		0.0015472	0.00310203	0.0123815
JUNE								
CALM ALPHA BETA	0.237 0.0171468 2.20737			0.074 0.00775646 2.16449	0.047 0.00364298 2.37067	0.0022778		
JULY								
CALM ALPHA BETA	0.273 0.0238997 2.13967	0.0260157	0.0188479		0.036 0.00396333 2.39394	0.00219891	0.06 0.00532204 2.60997	0.0167216
AUG								
CALM ALPHA BETA	0.289 0.0274444 2.06413	0.305 0.0307515 2.00986		0.09 0.00858861 2.18486			0.069 0.00843848 2.40083	0.017892
SEPT								
CALM ALPHA BETA	0.0311596	0.345 0.0292197 1.91694	0.233 0.0231798 1.86723		0.039 0.00446459 2.29544	0.00519803		0.0223534
QCT								
CALM ALPHA BETA	0.209 0.0194256 1.95788	0.259 0.0178212 1.98621		0.097 0.00720957 2.08594			0.134 0.00965651 2.25432	0.0200771
NOV								
CALM ALPHA BETA	0.206 0.0197225 1.86323	0.0192354	0.0181495	0.012732	0.00751475	0.0171911		0 0177444
DEC								
CALM ALPHA BETA	0.229 0.0274626 1.6719	0.255 0.0261282 1.67885	0.261 0.0286598 1.64522	0.162 0.0192392 1.66827	0.094 0.0116488 1.83573	0.121 0.0179491 1.75856	0.178 0.0206606 1.74031	0.214 0.0212892 1.77357

# BEDFORD MASS/L. G. HANSOOM FIELD

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA		0.012898	0.255 0.0154016 1.8597	0.00967465	0.00699759	0.00910251	0.217 0.0132505 1.90243	0.0118353
FEB								
CALM ALPHA BETA	0.285 0.0112208 2.00849		0.278 0.0138962 1.88689	0.163 0.00976173 1.8781	0.101 0.00682076 1.98182			0.0111171
MARCH								
CALM ALPHA BETA	0.278 0.0132906 1.97695		0.0121102	0.094 0.00616566 2.04222		0.0052112		0.0124357
APRIL								
CALM ALPHA BETA	0.328 0.0100756 2.17069	0.0112447			0.046 0.00304942 2.27658	0.00225925	0.128 0.00680166 2.18565	0.00722358
MAY								
CALM ALPHA BETA	0.0168602			0.00591311	0.00317548	0.00244723	0.143 0.00896226 2.16799	0.0125514
JUNE								
CALM ALPHA BETA	0.425 0.0174071 2.13666	0.0296832		0.117 0.00434032 2.43942	0.00251895	0.00214205		0.00977161
JULY								
CALM ALPHA BETA	0.0242151	0.0296548		0.00810053	0.00383004	0.00240449	0.209 0.00981678 2.30666	0.0135798
AUG								
CALM ALPHA BETA	0.524 0.0240311 2.03071	0.564 0.0243838 2.05302			0.0054416	0.00270802		0.0191547
SEPT								
CALM ALPHA BETA	0.502 0.0319607 1.81262	0.536 0.0269667 1.89258				0.079 0.0051771 2.43957		
ост								
CALM ALPHA BETA	0.419 0.0186665 1.91542	0.429 0.0238485 1.8352		0.147 0.00746119 2.06743	0.071 0.00619474 2.11031	0.094 0.00656498 2.21122	0.27 0.0131148 2.05765	0.0161643
NOV								
CALM ALPHA BETA	0.362 0.0178853 1.83898	0.0122706	0.0138301	0.00681993	0.00668721	0.00973389		0.01901
DEC								
CALM ALPHA BETA	0.288 0.0149322 1.87621	0.0134656	0.293 0.0156957 1.86162	0.012226	0.00893047	0.0126955	0.241 0.0104258 2.01899	0.011308

ST. CEORGE, BERMUDA NWSED

			4.0	9-11	12-14	15-17	18-20	21-23
JAN	0-2	3-5	6-8					
CALM	0.066	0.064	0.061	0.033			0.045	0.068
BETA	1.9396	1.98383	2.02917	2.23122	0.00260828 2.20156		1.98824	2.02683
BEIM	1.7376	1.70303		2.20124				
FEB								
	0.051	0.046	0.05	0.026	0.009	0.012	0.041	0.049
CALM	0.00319622		0.0024546			0.00124371		
BETA	2.12047	2.12897	2.24193		3,18863	2.45454	2.27693	2.14301
MARCH								
CALM	0.037	0.034	0.038	0.025	0.007	0.006	0.03	0.046
ALPHA	0.00324327	0.00343239	0.00301249			0.00118593		0.00265708
BETA	2.12198		2.17995	2.41784	2.52818	2.46818	2.2819	2.21402
			•					
APRIL								
CA1 M	0.045	0.047	0.038	0.018	0.008	0.005	0.021	0.039
CALM	0.00395923	0.00332051	0.00289381		0.000169486	0.000395977		0.00431306
BETA	2.15747		2,26995		3.3418	3,01193	2.20549	
MAY								
CA1 #	0.000	0.04	0.033	0.012	0.005	0.004	0.021	0.042
CAL M AL PHA	0.041	0.00294669	0.00253497			0.00025626		
BETA	2.28325	2.42361	2.47096	2.66046			2.48562	2.38164
JUNE								
C W	0.031	0.040	0.038	0.01	0.007	0.008	0.02	0.024
CALM						0.00011959		
BETA	2.55317		2.52266			3.69		2.5203
JULY								
CAL M	0.007	0.050	0.054	0.02	0.011	0.014	0,025	0.045
ALPHA	0.053	0.058	0.054			0.014		
BETA	2.50422	2.44223	2.47403				2.77111	
AUG								
CALM	0.09	0.002	0.059			0.024	0.065	0.089
BETA	2.49239	2.35032	2.29118				2.42068	2.41682
		2133032			2100021	2.00200	2.42000	2111000
SEPT								
CALM	0.071	0.071	0.06			0.012	0.032	0.058
BETA	2.04436	2.02918	2.09754			2,38708	2.14388	2.07403
								-
OCT								
ALPHA	0.054	0.064	0.057	0.025		0.015	0.042	0.05
BETA	2.18473	2.2026	2.2667				2.28335	2.2511
	2.10473	212020	212007	2147103	2137473	2.34000	2.26333	2.2311
NOV								
CALM	0.075	0.067	0.061	0.03	0.015	0.018	0.048	0.065
BETA	2.21556	2.09459	2.12843	2.34249	2.43488	0.00296648	2.20244	2.23093
DEC								
CALM	0.057				0.015			
ALPHA	0.00437409	0.0050374	0.0042510	0.0034	0.015	0.023	0.048	0.056
BETA	2.13846	2.07373	2.14465	2.19421	2.29642	0.00344158 2.20446	2.06474	2,03481
						2.22110	2.004/6	2.0001

# CHRISTOHUROI NEW ZEALAND APT

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.234 0.0121493 2.03227	0.0130846	0.165 0.00841417 2.14012	0.00347928	0.0010106	0.00032271	0.0015528	0.124 0.00748427 2.09614
FEB								
CALM ALPHA BETA	0.25 0.0110399 2.10608		0.0202975	0.074 0.00523095 2.19231	0.0012456	0.000925713	0.0023765	0.0126014
MARCH								
CALM ALPHA BETA	0.263 0.0220511 1.79248		0.274 0.0257597 1.74403	0.142 0.010215 1.95645	0.048 0.00379637 2.2228		0.046 0.00742189 2.12671	0.171 0.0162579 1.89086
APRIL								
CALM ALPHA BETA	0.311 0.0169995 1.90849	0.351 0.0237243 1.76448	0.0218926	0.018543	0.00496202	0.00215071		0.0102039
MAY								
CALM ALPHA BETA	0.312 0.0149697 1.98231	0.318 0.0171146 1.92396			0.00827465	0.00838723	0.0105076	0.0142509
JUNE								
CALM ALPHA BETA	0.378 0.0180068 1.99264		0.0200425	0.0177343	0.0140869		0.016469	
JULY								- •
CALM ALPHA BETA	0.327 0.018425 1.88083	0.313 0.0203654 1.83488		0.251 0.0212867 1.78835	0.0103481	0.0083399	0.011922	0.0168423
AUG								
CALM ALPHA BETA	0.316 0.0146273 2.01591	0.349 0.0204251 1.86448	0.316 0.0195658 1.89055	0.0162092	0.00818139	0.00353847	0.0112704	0.0134338
SEPT								
CALM ALPHA BETA	0.263 0.00929045 2.20153	0.309 0.0144571 1.99488		0.12 0.00804228 2.05649	0.00274376	0.000957632		0.00702325
ОСТ								
CALM ALPHA BETA	0.268 0.0118763 2.10282	0.303 0.0143824 1.99988			0.00274767	0.000722143	0.00336386	
NOV								
CALM ALPHA BETA	0.275 0.0129703 2.03369	0.31 0.0175723 1.91391	0.225 0.0136478 1.93439	0.057 0.0071138 2.02219		0.011 0.000496007 2.82091	0.024 0.00239951 2.46761	0.129 0.00875279 2.12353
DEC								
CALM ALPHA BETA	0.0132283	0.249 0.0179801 1.91557	0 013393		0.011 0.000683681 2.77165	0.002 0.000126783 3.34062	0.018 0.00101363 2.72253	0.133 0.00703072 2.19156

# FURMAKI HONSHU JAPAN/MISAWA

JAN	0-2	3-5	6-8	9 11	12-14	15-17	18-20	21-23	
CALM	0.097	0.099	0.087	0.052	0.05	0.059	0.104	0.093	
ALPHA	0.0137765	0.0134991	0.0169433	0.00880533 2.04526	0.00383562	0.0063654	0.0134361	0.016847	
BETA	1.99787	1.98884	1.90833	2.04326		2.102/1	1.7.775	1.07070	
111									
CALM		0.143			0.064		0.114		
BETA	0.0188518	0.0197251	0.0169038				1.9591		
MARCH									
пикси									
CALM	0.154	0.149		0.059		0.033			
ALPHA BETA	0.0187813			2.04094		2.33699			
AFRIL									
CALM ALFHA	0.181	0.194	0.141	0.049		0.016	0.09		
	1.78007		1.82241	2.16671	₹.56234	2.48188	1.97921	1.71121	
MAY									
		170 300							
CALM	0.28	0.26	0.174			0.025	0.139		
BETA						2.36569			
JUNE									
EALM ALFHA	0.333	0.309		0.074			0.155	0.296	
BETA	1.92231	1,85478				2.48597		1.87117	
JULY									
ALPHA	0.35		0.248			0.025		0.312	
BETA	1.82234	1.95	1.90785	2.48816	3.06128	2.73636	2,09082	1.85407	
AUG									
CA. M	0.151								
CALM	0.353	0.351			0.025		0.191		
BETA	2.1466		2.00982				2.07873	2.02735	
SEFT									
CALM	0.247	0.244	0.191	0.122	0.057	0.045	0.207	0.754	
ALF'HA		0.0188326		0.00723968		0.065			
BETA	2.14076	2.14678	2.10838	2.22251			2.20037	1.97067	
061		* *							
CALM	0.162	0.171	0.147	0.111	0.055	0.082			
ALPHA	0.0169207	0.0110779				0.00779549	0.193	0.178	
BETA	2.21469	2.4694	2.1962	2.025	2.23931	2.16497	1.88612	2.08435	
NOV									
CALM	0.112	0.102	0.095	0.06	0.045	0.067	0.14	0	
ALPHA	0.0122845					0.00902087	0.0171975		
BETA	2.19797	2.06528	2.27251	2.04001			2.01255	2.00116	
DEC									
CALM	0.109	0.105	0.088	0.059	0.057	0.079	0.119		
ALPHA	0.0169255	0.0173466	0.0135126	0.00981515	0.00479033	0.00830671	0.0148546	0.114	
BETA	1.94397	1.93455	2,05822	2.01985	2.17211		1.98507	1.95788	

# GOOSE NEWFOUNDLAND DOT APT

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
	0.08	0.078	0.081					0.091
CALM ALPHA	0.0228007	0.0288087	0.0282693	0.028967	0.0158871		0.0241072	
BETA	1.62199	1.52362	1.53767	1.4861	1.6721	1.63732	1.36607	213407
FEB								
CALM	0.102	0.097	0.122	0.125	0.117	0.091	0.115	0.11
ALPHA	0.0354758	0.0412587	0.0334004	0.0337443	0.0207528	0.0275377	0.0436971	0.0441999
BETA	1.50766	1.44504	1.52624	1.46546	1.60343	1.33531	1.40813	11424/4
HARCH								
CALH	0.089	0.06	0.064	0.075	0.054	0.048	0.067	0.083
ALPHA	0.0200029	0.0249751		0.0188426	0.0114445	0.00963771		0.0220209 1.68765
BETA	1.74239	1.66/18	1.6281/	1.6/083	1.8061	1.5/763	1.631/6	1.00/03
APRIL								
CALH	0.077	0.071	0.06	0.052	0.036	0.03	0.04	0.072
ALPHA	0.0371028	0.037939	0.0352877	0.0164637	0.00923044	0.00645086	0.0239441	0.0335471
BETA	1.53475	1.53328	1.51685	1.73853	1.9057	2.04854	1.64817	1.5624
HAY								
CALH	0.106	0.104	0.109	0.07	0.051	0.037	0.058	0.099
ALPHA	0.0547684	0.0514491	0.039574	0.0214366	0.00967947	0.00823254	0.0241181	0.0442422
BETA	1.4414	1.46776	1.50957	1.65792	1.92359	2.01524	1.70096	1.53046
JUNE								
CALH	0.118	0.104	0.095	0.071	0.04	0.031	0.061	0.107
ALPHA	0.0379124	0.0478937	0.0299395	0.0170077	0.00798108	0.00560147	0.015266	0.0328265
BETA	1.6955	1.59865	1.65777	1.81277	2.0459	2.17849	1.90879	1.67206
JULY								
JULY			. 0.097	. 0.048	. 0.024		. 059	
CALH ALPHA	0.101 0.032692	0.083 0.0356131	0.087 0.0221251	0.0163983	0.0067239	0.032 0.00647792	0.059 0.021503	
CALH					0.0067239			
CALH ALPHA	0.032692	0.0356131	0.0221251	0.0163983	0.0067239	0.00647792	0.021503	0.0314546
CALH ALPHA BETA	0.032692 1.76259	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533	0.0067239 2.11568	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALH ALPHA BETA AUG CALH ALPHA	0.032692 1.76259 0.052 0.0236475	0.0356131 1.75065	0.0221251 1.8253 0.043	0.0163983 1.82533 0.037 0.0152904	0.0067239 2.11568 0.021 0.00715342	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALH ALPHA BETA AUG	0.032692 1.76259	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533	0.0067239 2.11568	0.00647792 2.16513	0.021503 1.81959	0.0314546
CALH ALPHA BETA AUG CALH ALPHA	0.032692 1.76259 0.052 0.0236475	0.0356131 1.75065	0.0221251 1.8253 0.043	0.0163983 1.82533 0.037 0.0152904	0.0067239 2.11568 0.021 0.00715342	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065 0.049 0.0213512 1.93135	0.0221251 1.8253 0.043 0.0240457 1.77723	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568 0.021 0.00715342 2.05621	0.00647792 2.16513 0.023 0.00646133 2.13608	0.021503 1.81959 0.044 0.0239391 1.81758	0.0314546 1.77019 0.054 0.0262786 1.82035
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.0221251 1.8253 0.043	0.0163983 1.82533 0.037 0.0152904	0.0067239 2.11568 0.021 0.00715342	0.00647792 2.16513 0.0023 0.00646133 2.13608	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065 0.049 0.0213512 1.93135	0.0221251 1.8253 0.043 0.0240457 1.77723	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621	0.00647792 2.16513 0.0023 0.00646133 2.13608	0.021503 1.81959	0.0314546 1.77019 0.054 0.0262786 1.82035
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.021251 1.8253 0.043 0.0240457 1.77723	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568 0.021 0.00715342 2.05621	0.00647792 2.16513 0.023 0.00646133 2.13608	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533  0.037 0.0152904 1.8229  0.048 0.0105608 1.88425	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717	0.00647792 2.16513	0.021503 1.81959  0.044 0.0239391 1.81758  0.054 0.0285801 1.68269	0.0314546 1.77019  0.054 0.0262786 1.82035  0.048 0.0234046 1.81923
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA DETA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065 0.049 0.0213512 1.93135 0.047 0.0195195 1.87348	0.021251 1.8253	0.0163983 1.82533  0.037 0.0152904 1.8229  0.048 0.0105608 1.88425	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717	0.00647792 2.16513 0.023 0.00646133 2.13608	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA OCT CALM	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065 0.049 0.0213512 1.93135 0.047 0.0195195 1.87348	0.0221251 1.8253 0.043 0.0240457 1.77723 0.051 0.019352 1.78528	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568	0.00647792 2.16513 0.023 0.00646133 2.13608	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA DETA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065 0.049 0.0213512 1.93135 0.047 0.0195195 1.87348	0.0221251 1.8253	0.0163983 1.82533  0.037 0.0152904 1.8229  0.048 0.0105608 1.88425  0.043 0.00823245 1.96964	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA OCT CALM ALPHA BETA	0.032692 1.76259	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04	0.00647792 2.16513	0.021503 1.81959  0.044 0.0239391 1.81758  0.054 0.0285801 1.68269  0.059 0.022732 1.74921	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA OCT CALM ALPHA BETA NOV CALM ALPHA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584	0.00647792 2.16513	0.021503 1.81959  0.044 0.0239391 1.81758  0.054 0.0285801 1.68269  0.059 0.022732 1.74921	0.0314546 1.77019
CALM ALPHA BETA  AUG  CALM ALPHA BETA  SEPT  CALM ALPHA BETA  OCT  CALM ALPHA BETA  NOV  CALM	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584	0.00647792 2.16513	0.021503 1.81959  0.044 0.0239391 1.81758  0.054 0.0285801 1.68269  0.059 0.022732 1.74921	0.0314546 1.77019
CALM ALPHA BETA AUG CALM ALPHA BETA OCT CALM ALPHA BETA NOV CALM ALPHA	0.032692 1.76259 0.052 0.0236475 1.90074	0.0356131 1.75065	0.0221251 1.8253	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV CALM ALPHA BETA	0.032692 1.76259	0.0356131 1.75065 0.049 0.0213512 1.93135 0.047 0.0195195 1.87348	0.0221251 1.8253	0.0163983 1.82533 0.037 0.0152904 1.8229	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584 	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV CALM ALPHA BETA	0.032692 1.76259	0.0354131 1.75065	0.0221251 1.8253	0.0163983 1.82533	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584  0.088 0.0166141 1.70019	0.00647792 2.16513	0.021503 1.81959  0.044 0.0239391 1.81758  0.054 0.0285801 1.68269  0.059 0.022732 1.74921  0.086 0.0305165 1.55884	0.0314546 1.77019
CALM ALPHA BETA  AUG  CALM ALPHA BETA  SEPT  CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV  CALM ALPHA BETA	0.032692 1.76259	0.0354131 1.75065	0.021251 1.8253	0.0163983 1.82533	0.0067239 2.11568  0.021 0.00715342 2.05621  0.029 0.00718523 1.98717  0.04 0.00461309 2.15584  0.088 0.0166141 1.70019	0.00647792 2.16513	0.021503 1.81959	0.0314546 1.77019

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HILL AFB UTAH OCDEN

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM	0.154	0.134				0.244	0.255	
ALPHA	0.0164938	0.0129218		0.0187537		0.0344554	0.0297924	
BETA	1.86814	1.91847	1.84121	1.76527	1.81895	1.65083	1.71173	1.84872
FEB								
CALM	0.122	0.119	0.101	0.096	0.124	0.16	0.205	0.141
ALPHA		0.00901903			0.0141382			
BETA	1.98745	2.02725	1.89671	2.03916	1.93557	1.94414	1.85842	1.98809
MARCH								
manch								
CALH	0.097	0.099	0.079					0.125
ALPHA BETA	2.50672		0.00598084 2.1389		1.8886	1.90112	1.88606	2.32065
BEIN	21300/2	212070				•		
APRIL					•			
CALH	0.079	0.075				0.084	0.172	0.116
ALPHA		0.00530794			0.00860904		2.07094	0.00703121 2.25267
BETA	2,36878	2.21259	2.13761	2.00635	2.09126	2.09278	2.07074	2.23297
MAY								
CALM	0.06	0.055	0.05	0.105	0.081	0.081	0.174	0.105
ALPHA			0.00405232			0.00888836		0.00534092
BETA	2.35687	2.36046	2.29966	2.06014	2.14006	2.1492	1.74853	2.35731
JUNE								
CALM ALPHA	0.053	0.05	0.059		0.072	0.083		0.089
BETA	2,34963	2.30926	2.40695		2.19864	2.25779	1.88281	2.27807
JULY								
JULI								
CALM	0.041	0.027	0.029		0.092			0.056
BETA	0.00331283 2.33996	0.00295619 2.32474	0.00259128 2.42451	0.00698575 2.28027	0.00827669	0.00901105 2.31663	0.0254559	0.00404036 2.36951
DETH	2133776	2.324/4	2.42431	2.20027	2.33777	2.31003	1./7/04	2.30731
AUG								
CALM	0.034	0.027	0.027	0.057	0.061	0.083	0.211	0.053
ALPHA	0.00426722		0.00255475			0.00942067		0.00419982
BETA	2.24282	2.29188	2.42381	2.1329	2.27679	2.268	1.72582	2.34312
SEPT								
CALM	0.049	0.041	0.041	0.094	0.099	0.111	0.256	0.075
ALPHA	0.00371851		0.00450854		0.00916956	0.0143675		0.00416689
BETA	2.33418	2.23014	2.18472	2.05461	2.25752	2.12677	1.82659	2.45992
DCT								
CALM	0.064	0.053	0.051	0.085	0.145	0.138	0.249	0.11
BETA	2.35203	2.24063	2.21208	2.00841	1.89701	1.97621	1.71979	2.29504
NOV								
						•		
CALM	0.105	0.087	0.083	0.101	0.162	0.193		
BETA	2.04856				0.0232759		0.0283092	0.0165917
	2104036	1.1030/	2.04368	2,00313	1.///25	1.79701	1.//193	1.97996
050								
DEC								
CALM	0.163				0.205	0.231	0.269	0.215
ALPHA	0.0176872	0.0131321	0.0114417	0.0146209	0.0253287			
BETA	1.84131	1.91774	1.94101	1.88118	1.76978	1.75567		

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JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.12 0.0357847 1.61165	0.119 0.0405416 1.58983	0.107 0.0522127 1.45732	0.00952386	0.01 0.000943954 2.74238	0.00233382	0.0168211	0.035276
FEB								
CALM ALPHA BETA	0.116 0.023362 1.78285	0.119 0.0249789 1.75717	0.112 0.0272783 1.70779	0.047 0.00513104 2.13486	0.008 0.000458908 2.94623	0.008 0.000993184 2.71125	0.059 0.00757117 2.12616	0.098 0.0198828 1.7912
MARCH								
CALM ALPHA BETA					0.003 0.000394531 2.90711			
APRIL								
CALM ALPHA BETA	0.089 0.0125449 1.976	0.1 0.0177006 1.88781	0.07 0.013587 1.89139	0.011 0.000742417 2.75905	0.003 0.000141788 3.25975	0.005 0.000302929 3.04028	0.032 0.0024491 2.47472	0.069 0.00931235 2.01042
MAY								
CALM ALPHA BETA	0.108 0.00834732 2.19587	0.0105375	0.00700611	0.000228612	0.004 .0000946481 3.39667	0.00016945	0.00143529	0.00362155
JUNE								
CALM ALPHA BETA	0.0037666	0.00624327	0.00415395	0.000104798	0.000020415 3.9016	.0000313549	0.000471036	0.00229865
JULY								
CALM ALPHA BETA	0.049 0.0021871 2.69489	0.00427181	0.00270393	0.004 0.000105384 3.4243	0.002 .0000115624 4.07561	0.003 .0000221857 3.87043	0.000324971	0.000781478
AUG								
CALM ALPHA BETA	0.00181682	0.046 0.00457297 2.42911	0.00234956	0.000072038	0.002 .0000086316 4.14892	0.003 .0000105624 4.13042	0.000305752	0.000600515
SEPT								
CALM ALPHA BETA	0.076 0.00719274 2.32986	0.094 0.0129771 2.12232	0.068 0.0105635 2.0725	0.007 0.000313709 3.12312	0.004 0.00005047 3.6542	0.006 0.000106237 3.42005	0.023 0.00146517 2.71081	0.055 0.00414083 2.428
OCT		•						
CALM ALPHA BETA	0.077 0.0133264 2.04858	0.0192071	0.0156061	0.000908828	0.003 0.000102688 3.45734	0.0004406		0.00882043
NOV								
CALM ALPHA BETA	0.088 0.0226877 1.7784	0.096 0.0220411 1.82052	0.086 0.024377 1.68842	0.03 0.00235429 2.39598	0.004 0.000379994 3.001	0.013 0.00117828 2.67151	0.058 0.00830524 2.07961	0.081 0.0189107 1.78296
DEC								
CALM ALPHA BETA	0.073 0.020529 1.76828	0.0212684	0.07 0.0247904 1.67839	0.00466197	0.006 0.000908883 2.67869	0.00184042	0.0116984	0.019178

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#### LAJES FLD AZORES/TERCETRA

JAN	0-2	3-5	6-8	9-11	12-14	15~17	18-20	21-23
CALM ALPHA BETA	0.132 0.00863015 1.82675	0.148 0.00905577 1.80997	0.141 0.00763039 1.8853	0.00462279	0.000703833		0.00843153	0.0084735
FEB								
CALM ALPHA BETA	0.124 0.0105566 1.80194	0.13 0.0112321 1.76446		0.046 0.00466845 2.04763	0.000699659		0.088 0.00980189 1.81579	
HARCH								
CALM ALPHA BETA	0.115 0.00801603 1.85649		0.125 0.00696491 1.88992	0.00323963	0.00171599		0.00573791	0.116 0.00609954 1.95626
APRIL								
CALM ALPHA BETA	0.18 0.0135119 1.80574	0.191 0.0123097 1.81893	0.127 0.0075935 1.99294	0.021 0.00272387 2.32102	0.000399497		0.105 0.0092328 1.94799	0.171 0.0125511 1.85163
HAY								
CALM ALPHA BETA	0.199 0.0105016 1.9872	0.197 0.00933105 2.02148	0.122 0.004032 2.30805	0.016 0.00213555 2.46263	0.000360939		0.089 0.00595258 2.19894	
JUNE								
CALM ALPHA BETA	0.283 0.017193 1.89109	0.301 0.0188851 1.82604			0.000547768		0.00885246	
JULY								
CALM ALPHA BETA	0.333 0.0201198 1.97093	0.356 0.0158219 2.02458	0.196 0.00690331 2.31359	0.025 0.00193266 2.77478	0.00121541			* * * * * * * * * * * * * * * * * * * *
AUG								
CALM ALPHA BETA	0.349 0.0127477 2.11679	0.355 0.0114753 2.16992	0.226 0.00611733 2.40919	0.023 0.00134561 2.90471	0.000746491	0.00158206	0.00812433	0.0156952
SEPT								
CALM ALPHA BETA	0.282 0.0142508 1.90322	0.279 0.0145167 1.87803	0.197 0.0103955 2.00281	0.023 0.00270309 2.46557	0.00212262	0.10404718	0.0129288	
ОСТ								
CALM ALPHA BETA	0.194 0.0136484 1.81115	0.193 0.0107984 1.8912	0.154 0.00805714 2.00193	0.034 0.00369238 2.23197	0.00241095			0.189 0.0113204 1.88394
MOV								
CALM ALPHA BETA	0.154 0.0103857 1.81265	0.147 0.0101919 1.81186	0.153 0.00837095 1.86604	0.056 0.00491848 2.0475	0.027 0.00381342 2.13636	0.056 0.00752714 1.9284	0.126 0.0106493 1.81213	0.142 0.0106017 1.80321
DEC								
CALM ALPHA BETA		0.171 0.00859385 1.86699		0.077 0.00550217 2.01976	0.032 0.00430085 2.10577	0.067 0.00915529 1.87166	0.0095953	0.155 0.0102527 1.82539

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# MANILA INTL PHILIPPINES

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
						0.007	0.162	0.231
CALM	0.207	0.132		0.047			0.0313577	
ALPHA BETA	0.0988843	0.104052 1.5453	0.174808	1.56874	1.63469	1.56491	1.77333	1.84712
BEIM	1.63132	1.3433	1.10103	1100074				
FEB							•	
CALM	0.134	0.097	0.126	0.016	0.018	0.043	0.129	0.175
ALPHA	0.074634	0.147426	0.232888	0.0370025	0.0166067		0.0106991	0.0284139
BETA	1.60549	1.21224	0.90808	1.5888	1.75743	1.93302	2.00015	1.82889
HARCH								
MARCH	•							
CALM	0.067	0.046	0.084	0.011	0.007	0.035	0.097	
ALPHA	0.033875	0.109244	0.15047	0.0128626	0.00422259		0.00471745	
BETA	1.83077	1.26926	1.00805	1.88007	2.13244	2.25311	2.22233	1.95704
APRIL								
							0.072	0.123
CALM ALPHA	0.066	0.071	0.081	0.004	0.004	0.018	0.00805195	0.0181365
BETA	1.91359	1.19866	1.11446	1.98042	2.18597	2.20802	2.02949	1.93417
DEIN		1111000						
MAY	•			•	•			
CALM	0.081	0.074	0.078	0.009	0.028	0.073	0.151	0.204
ALPHA	0.0451391	0.103137	0.0864941	0.0111589			0.020121	0.042231
BETA	1.77762	1 . 35292	1.30001	2.01822	1.87665	1.7594	1.7275	1.60843
JUNE								
JUNE				•		•		
CALM	0.17	0.163	0.138	0.032	0.046	0.105	0.17	0.224
ALPHA	0.0816774	0.0913833	0.102251	0.0221811	0.0177405	0.0188003	0.0434102	0.0792169
BETA	1.82308	1.61085	1.40343	1.97614	1.90346	1.76981	1.65679	1.66325
								_
JULY								
CALH	0.187	0.134	0.124	0.043			0.198	0.234
BETA	0.13759 1.389	0.138903	0.115528 1.28604	0.0338413	0.0203563 1.95028	0.0223121	0.0402419	0.08078
			1120001	1100107	1175025		11,,,0,,	1100017
AUG	4							
CALM	0.184	0.143	0.133	0.047	0.081	0.16	0.222	0.303
ALPHA	0.0927557	0.100008	0.105023	0.0335605		0.0263532	0.0439566	0.0706728
BETA	1.65054	1.45525	1.32713	1.83026	1.94112	1.78424	1.72895	1.76627
SEPT								
			·	*		•		
CALH	0.203	0.144	0.154	0.076	0.104	0.162	0.241	0.311
ALPHA	0.183642	0.155676	0.127199	0.0322691	0.0240772	0.042043	0.0504885	0.111631
BETA	1.28165	1.24546	1.28478	1.91731	1.86316	1.56533	1.73505	1.56204
OCT								
CALM ALPHA	0.242	0.217	0.217	0.093	0.086	0.152	0.217	0.259
BETA	1.6167	1.35509	1.49745	1.92	2.54674	2.08718	2.11825	0.0630408
					2.0.0.4	2.00710	2.11015	,541/
NOV								
HUV	•						•	
CALH	0.227	0.169		0.079	0.093	0.161	0.244	0.284
ALPHA	0.127443	0.128138	0.147502	0.0405592	0.093 0.0242559	0.0364493	0.0399244	0.0795441
BETA	1.5576	1.39212	1.21959	1.95974	1.99429	1.7476		1.83208
DEC								
		A VISITED						I was a first
CALM	0.261	0.193					0.221	0.278
ALPHA BETA	0.105857					0.0435651	0.0291834	
	1./3307	1.32249	1.13873	1.84606	1.73448	1.55496	2.16978	1.94067

# MCMURDO SOUND, ANTARCTICA NAF

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM	0.12	0.148	0.128	0.083	0.0106964	0.0100574	0.041	0.00704178
BETA	2.03335		1.87103	1.7969	1.86075	1.865	1.99634	2.03826
FER				•	•			•
CALM ALPHA BETA	0.075 0.00473136 2.02005	0.08 0.00537201 1.9764	0.068 0.00342931 2.11314		0.00205869	0.00286538		0.00306713
MARCH								
CALM ALPHA BETA	0.047 0.00288129 2.04772	0.00183737	0.05 0.00223626 2.10495	0.00240247	0.00178052	0.00190916	0.00510287	0.00686916
APRIL								
CALM ALPHA BETA	0.14 0.00291301 2.06037	0.00380487	0.0074955	0.00504266	0.123 0.0039949 1.96891	0.00468061	0.00397289	
HAY				•				4
CALM ALPHA BETA	0.18 0.00747788 1.72966	0.0050022			0.00814215	0.00680228		0.00928431
JUNE								
CALM	0.176	0.173	0.164	0.176	0.148	0.18	0.186	0.17
ALPHA BETA	0.00407241	0.00364657 1.94375	0.00727778	0.00630667	0.0096173 1.62399	0.00661532		0.00540064
JULY								•
CALM ALPHA BETA	0.207 0.00710027 1.74738	0.215 0.00718845 1.70776		0.00535237	0.172 0.00642573 1.7729	0.00416786	0.0102146	0.00509717
AUG								
CALM ALPHA BETA	0.263 0.00650795 1.76973		0.00772852	0.00805117	0.213 0.00579639 1.81827	0.00761619		0.0064576
SEPT	0.191	0.172	0.191	0.227	0.208	0.215	0.201	0.209
ALPHA BETA				0.00307258	0.010611 1.54306	0.00545018	0.00627024	
DCT								
CALM	0.177	0.194	0.209				0.188	0.172
BETA	1.76141	1.79086	1.8908	0.0063657 1.84158	1.94728	1.84397	1.91322	
NOV								
CALM	0,156				0.075 0.00863383			0.114
BETA	2.07982	1.86194	1.87958	1.86103	1.85108	1.90693	1.95778	2.04986
DEC								
CALH	0.123	0.143	0.113	0.052	0.036	0.032	0.038	0.071
BETA	2.02673	1.95472	1.95426	1.90245	0.0062573 2.02967	2.15702	0.0056305 2.08982	0.00784563 2.00667

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#### MIDWAY ISLANDS NS

Mart	JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALH ALPHA 0.0041734 0.0042073 0.0042073 0.0048737 0.004373 0.0043737 0.004373 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.0043737 0.00437	ALPHA	0.0056438	0.00557104	0.00458303	0.00354619	0.00345377	0.00303708	0.00440026	0.00528128
ALPHA   0.0041 733   0.0042073   0.0048073   0.0048073   0.0047741   0.0047567   0.00487739   0.00477367   0.00487739	FEB								
CALH	ALPHA	0.00411763	0.00420073	0.0048495	0.00443725	0.00349969	0.0037741	0.0047567	0.00487739
Name	HARCH								
CALH	ALPHA	0.00199863	0.00282703	0.0026427	0.00134114	0.000960615	0.00123226	0.0025112	0.00269343
ALPHA PLAY	APRIL								
CALH	ALPHA	0.00320907	0.00420614	0.00361614	0.00222501	0.00129425	0.00155024	0.0024547	0.00280956
BETA	MAY					*			
CALH	ALPHA	0.00363388	0.00515806	0.00413204	0.00197212	0.00104713	0.00133738	0.00219946	0.00264972
ALPHA 2.11715 2.0814 2.14588 0.00349022 0.00171814 0.00157545 0.00501147 0.00852166 2.17906  JULY	JUNE								
CALH	ALPHA	0.00908253	0.00994217	0.00821179	0.00349022	0.00171814	0.00157545	0.00501147	0.00852166
CALH	ии у								
AUG  CALH  O.088  O.091  O.085  O.091  O.085  O.091  O.085  O.092  O.0933209  O.0043299  O.0045902  O.00833209  O.0045902  O.0045903  O.0045903		0.026	0.028	0.019	0.007	0.005	0.006	0.007	0.022
CALM		0.00156942 2.71395	0.00200002 2.626 <b>38</b>						
ALPHA 2.41503 2.26664 2.3316 0.00297002 0.00209612 0.00210949 0.00494089 0.00553574 0.26664 0.3316 0.00210949 0.00210949 0.00494089 0.00553574 0.26664 0.3316 0.00210949 0.00210949 0.00494089 0.00553574 0.00210949 0.00210949 0.00553574 0.00210949 0.002109408 0.00210949 0.0048929 0.00210949 0.0048929 0.00210949 0.0048929 0.0021094	AUG								
CALH ALPHA O.088 O.091 O.085 O.00833209 O.00618584 O.00432246 O.00489292 O.0104016 O.0104929 BETA O.01596 O.0931 O.078 O.008 O.00833209 O.00618584 O.00432246 O.00489292 O.0104016 O.0104929 O.0104929 O.0104016 O.0104929 O.01049	ALPHA	0.00382699	0.06554565	0.00454741	0.00297002	0.00209612	0.00210949	0.00494089	0.00553574
ALPHA 2.01596 2.0931 2.12501 2.22049 2.34049 2.32922 0.0104016 0.0104929   DCT	SEPT								
OCT	ALPHA	0.0111534	0.00945902	0.00833209	0.00618584	0.00432246	0.00489292	0.0104016	0.0104929
CALH 0.034 0.047 0.047 0.02 0.008 0.008 0.001 0.033 ALPHA 0.00489303 0.00452538 0.0062648 0.00361835 0.0023497 0.00253008 0.00545282 0.00482783 0.22196 0.021997 0.0023497 0.00253008 0.00545282 0.00482783 0.004	oct								
BETA 2.124 2.1235 2.11687 2.32105 2.0023497 0.00233098 0.00555282 0.00482783 2.1201 2.20836  NOV	CALH			0.047	0.02	0.008	0.008	0.021	0.033
CALH 0.037 0.036 0.047 0.019 0.006 0.014 0.032 0.039  ALPHA 0.00489384 0.00551495 0.0062668 0.00376257 0.00334432 0.00367904 0.00428544 0.00401531  BETA 2.144 2.12255 2.1168/ 2.23494 2.26752 2.25815 2.21773 2.21958  DEC				0.0062668 2.11687	0.00361835	0.0023697			
DEC	NOV								
CALM 0.038 0.041 0.017 0.024 0.008 0.014 0.077	ALPHA	0.037 0.00489384 2.144	0.036 0.00551495 2.12255	0.047 0.0062668 2.1168/	0.019 0.00376257 2.23494	0.006 0.00334432 2.26752	0.014 0.00367904 2.25815	0.032 0.00428544 2.21773	0.039 0.00401531 2.21958
CALM 0.038 0.041 0.037 0.034 0.009 0.044 0.077	DEC								
	ALPHA	0.038 0.0032584 2.20924	0.041 0.00301471 2.23471	0.037	0.024	0.008 0.00278906 2.22951			0.043 0.0033484 2.19389

#### MILDENHALL RAF STN ENGLAND

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.087 0.0139037 1.88297	0.109 0.0126668 1.92217	0.092 0.0151119 1.85264	0.074 0.00980505 1.97985	0.047 0.0047253 2.20357	0.065 0.0109709 1.95632	0.078 0.0127357 1.93079	0.082 0.0125051 1.91164
FEB								
CALM ALPHA BETA	0.115 0.0160721 1.89301	0.109 0.0164661 1.87138	0.101 0.0163351 1.84742	0.063 0.0075964 2.05043	0.04 0.00326167 2.29453	0.049 0.00521902 2.2195	0.093 0.0123019 1.99167	0.11 0.0169357 1.84942
HARCH								
CALM ALPHA BETA	0.129 0.0119489 2.03595	0.136 0.0132073 1.99907	0.124 0.0118168 2.00573	0.063 0.0033584 2.32023	0.036 0.00197419 2.47239	0.04 0.0025534 2.43949	0.081 0.00864028 2.14495	0.108 0.0114285 2.06169
APRIL				•				
CALM ALPHA BETA	0.144 0.0187003 1.93127	0.163 0.0166519 1.98365	0.112 0.00984653 2.07801	0.048 0.00306825 2.36992	0.038 0.00205217 2.49929	0.036 0.00169947 2.5973	0.074 0.00848699 2.16642	0.111 0.0143773 2.06021
MAY								
CALM ALPHA BETA	0.178 0.0195047 2.01046	0.193 0.0210769 1.95041	0.102 0.00919178 2.12067	0.029 0.00307992 2.44843	0.019 0.00214037 2.53335	0.016 0.00145127 2.70847	0.045 0.00493265 2.43956	0.116 0.0201938 1.98957
JUNE								
CALM ALPHA BETA	0.254 0.0252246 1.96106	0.243 0.0265383 1.93716	0.118 0.0123355 2.07942	0.062 0.00649322 2.2192	0.039 0.00351018 2.41764	0.04 0.00278148 2.5309	0.071 0.0069367 2.34513	0.191 0.0185492 2.13678
JULY								- •
CALH ALPHA BETA	0.207 0.0156164 2.2093	0.232 0.0198776 2.04052	0.118 0.00919575 2.23348	0.045 0.00454734 2.38884	0.032 0.00400671 2.38932	0.04 0.00467762 2.35524	0.108 0.0115272 2.16939	0.171 0.0178166 2.14434
AUG								
CALM ALPHA BETA	0.22 0.026257 1.90651	0.244 0.0228927 1.97171	0.15 0.0101279 2.18541	0.064 0.00495838 2.27846	0.048 0.00368768 2.36025	0.044 0.00381349 2.39298	0.112 0.0136589 2.11558	0.178 0.0223084 2.00109
SEPT								
CALM ALPHA BETA	0.235 0.0358202 1.684	0.269 0.0314409 1.71954	0.205 0.0228528 1.79677	0.073 0.00738688 2.1114	0.04 0.00390282 2.31004	0.043 0.0072521 2.1296	0.121 0.0253497 1.84756	0.17 0.034621 1.71028
ОСТ								
CALM ALPHA BETA	0.169 0.0189927 1.88448	0.166 0.0169942 1.93713	0.177 0.0153612 1.95703	0.086 0.0078832 2.06704	0.051 0.00461697 2.22067	0.091 0.00835299 2.12512	0.15 0.021368 1.86393	0.183 0.0231959 1.80514
NOV								
CALM ALPHA BETA	0.103 0.012086 1.97958	0.116 0.0121288 1.96627	0.118 0.0117504 1.97548	0.075 0.00454848	0.047	0.075	0.107 0.0139583 1.91316	0.113 0.0133169 1.9256
DEC								
CALH ALPHA BETA	0.131 0.0122257 1.93854	0.121 0.0153655 1.82956	0.13 0.0145941 1.85844	0.0137604	0.00924236	0.089 0.0162354 1.82342	0.0156584	0.12 0.0121016 1.9469

#### NENANA ALASKA FAA

MAL	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM	0.33	0.346	0.337	0.331	0.332	0.335	0.358	
ALPHA	0.023271	0.0217982	0.0208824	0.0238378	0.0224125	1.76451	0.0192999	
BETA	1.74846	1.75524	1.78142	1.71048	1.74037	1.76431	1.00104	1170017
FEB								
CALM	0.398 0.0195403	0.428	0.407	0.331	0.234	0.214	0.314	0.369
ALPHA	0.0195403	0.0167141	1.85199	0.0174225	2.20748	2.11253	1.68539	0.024382
BETA	1.9033	1.77200	1.65177	1175766	2720710			
MARCH							•	
CALM	0.39	0.421	0.387	0.256	0.154	0.127	0.287	0.363
ALPHA	0.0213666	0.022921		0.00846653 2.1809	2.70226	0.00677152	2.19389	1.95505
BETA	1.70845	1.8/637	1.7014/	2.1607	2.70220	2130770	2117507	1170505
APRIL	·							
CALM	0.349	0.328	0.212	0.093	0.072	0.056	0.185	0.33
ALPHA BETA	0.0101149 2.39815		0.00436356	0.00186418	0.00154934	0.00247329	0.0102043 2.30771	0.0129018
BEIM	2.37613	2.4163/	2.000/4	2.00711	2.71732	2170001	2.50//1	2120002
MAY								
CALM	0.386	0.38	0.168	0.082	0.072	0.065	0.14	0.343
ALPHA BETA	0.0129959 2.36576	2.32031	2.67733	2.61497	2.55553	2.41437	2.58024	2.34554
DETA	2130370	2132031	2.0//33	21014//		2101037	2130021	2101001
JUNE								•
CALM	0.435	0.452	0.201	0.119	0.082	0.085	0.159	0.337
ALPHA BETA	0.00984191 2.55886		2.59847	2.49078	2.43149	2.45332	2.34766	2.54922
22	2133000	2	2107017	2111070	2110211	2115552	2101100	2.522
HILY								-
JULY								
CALH	0.457	0.447	0.235	0.118	0.109	0.129	0.25	0.406
	0.457 0.0124438 2.48811	0.447 0.0102642 2.51904	0.235 0.00772346 2.50774	0 00704514	0 0007044	0 00770912	0.25 0.013981 2.27503	0.406 0.0153152 2.37067
CALM ALPHA	0.0124438	0.447 0.0102642 2.51904	0.235 0.00772346 2.50774	0 00704514	0.109 0.0083044 2.34257	0 00770912	0.013981	0.406 0.0153152 2.37067
CALM ALPHA	0.0124438 2.48811	0.0102642 2.51904	0.235 0.00772346 2.50774	0 00704514	0.0083044 2.34257	0.00730812 2.43652	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA AUG	0.0124438 2.48811	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792	0.0083044 2.34257	0.00730812 2.43652	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA	0.0124438 2.48811	0.0102642 2.51904	0.00772346 2.50774 0.254 0.00800446	0.00704514 2.46792 0.15 0.00661314	0.0083044 2.34257 0.115 0.00608185	0.00730812 2.43652 0.129 0.00753489	0.013981 2.27503 0.302 0.0184358	0.0153152 2.37067
CALM ALPHA BETA AUG	0.0124438 2.48811	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792	0.0083044 2.34257 0.115 0.00608185	0.00730812 2.43652 0.129 0.00753489	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA	0.0124438 2.48811	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 	0.00704514 2.46792  0.15 0.00661314 2.48487	0.0083044 2.34257  0.115 0.00608185 2.48198	0.00730812 2.43652 0.129 0.00753489 2.4484	0.013981 2.27503  0.302 0.0184358 2.19281	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM	0.0124438 2.48811	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 	0.00704514 2.46792	0.0083044 2.34257 0.115 0.00608185 2.48198	0.00730812 2.43652 0.129 0.00753489 2.4484	0.013981 2.27503 	0.0153152 2.37067 0.455 0.0183747 2.22627
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA	0.0124438 2.48811  0.462 0.0132299 2.41943 	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 	0.00704514 2.46792 0.15 0.00661314 2.48487	0.0083044 2.34257  0.115 0.00608185 2.48198  0.092	0.00730812 2.43652  0.129 0.00753489 2.4484  0.11	0.013981 2.27503 0.302 0.0184358 2.19281	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM	0.0124438 2.48811	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 0.254 0.00800446 2.51542	0.00704514 2.46792 0.15 0.00661314 2.48487	0.0083044 2.34257 0.115 0.00608185 2.48198	0.00730812 2.43652  0.129 0.00753489 2.4484  0.11	0.013981 2.27503 0.302 0.0184358 2.19281	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA	0.0124438 2.48811  0.462 0.0132299 2.41943 	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 	0.00704514 2.46792 0.15 0.00661314 2.48487	0.0083044 2.34257  0.115 0.00608185 2.48198  0.092	0.00730812 2.43652  0.129 0.00753489 2.4484  0.11	0.013981 2.27503 0.302 0.0184358 2.19281	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA	0.0124438 2.48811  0.462 0.0132299 2.41943  0.364 0.0126304 2.27872	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774 0.254 0.00800446 2.51542 0.301 0.00955373 2.32628	0.00704514 2.46792	0.0083044 2.34257 0.115 0.00608185 2.48198 0.092 0.00299701 2.72788	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA OCT CALM ALPHA	0.0124438 2.48811  0.462 0.0132299 2.41943  0.364 0.0126304 2.27872	0.0102642 2.51904	0.00772346 2.50774  0.254 0.00800446 2.51542  0.301 0.00955373 2.32628	0.00704514 2.46792 0.15 0.00661314 2.48487	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA	0.0124438 2.48811  0.462 0.0132299 2.41943  0.364 0.0126304 2.27872	0.0102642 2.51904 0.445 0.0163639 2.25627	0.00772346 2.50774  0.254 0.00800446 2.51542  0.301 0.00955373 2.32628	0.00704514 2.46792	0.0083044 2.34257 0.115 0.00608185 2.48198 0.092 0.00299701 2.72788	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA AUG CALM ALPHA BETA SEPT CALM ALPHA BETA OCT CALM ALPHA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.0126304 2.27872 0.304 0.0165387 2.04331	0.0102642 2.51904  0.445 0.0163639 2.25627  0.367 0.0106495 2.3747  0.348 0.0152254 2.06243	0.00772346 2.50774  0.254 0.00800446 2.51542  0.301 0.00955373 2.32628  0.31 0.0137699 2.12142	0.00704514 2.46792	0.0083044 2.34257 0.115 0.00608185 2.48198 0.092 0.00299701 2.72788	0.00730812 2.43652 0.129 0.00753489 2.4484	0.013981 2.27503	0.0153152 2.37067
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  OCT CALM ALPHA BETA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.0126304 2.27872 0.304 0.0165387 2.04331	0.0102642 2.51904  0.445 0.0163639 2.25627  0.367 0.0106495 2.3747  0.348 0.0152254 2.06243	0.00772346 2.50774  0.254 0.00800446 2.51542  0.301 0.00955373 2.32628  0.31 0.0137699 2.12142	0.00704514 2.46792	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV CALM ALPHA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.0126304 2.27872 0.304 0.0165387 2.04331	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792 0.143 0.00447759 2.56663	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  OCT CALM ALPHA BETA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.0126304 2.27872 0.304 0.0165387 2.04331	0.0102642 2.51904	0.00772346 2.50774  0.254 0.00800446 2.51542  0.301 0.00955373 2.32628  0.31 0.0137699 2.12142	0.00704514 2.46792 0.143 0.00447759 2.56663	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067
CALM ALPHA BETA  AUG CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV CALM ALPHA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.0126304 2.27872 0.304 0.0165387 2.04331	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792 0.143 0.00447759 2.56663	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067
CALM ALPHA BETA  AUG  CALM ALPHA BETA  SEPT  CALM ALPHA BETA  OCT  CALM ALPHA BETA  NOV  CALM ALPHA BETA  DEC  CALM	0.0124438 2.48811 0.462 0.0132299 2.41943 0.364 0.0126304 2.27872 0.304 0.0165387 2.04331 0.332 0.019839 1.89606	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792 0.143 0.00447759 2.56663	0.0083044 2.34257	0.00730812 2.43652 0.129 0.00753489 2.4484 0.11 0.00689239 2.46458 0.18 0.0101414 2.31521	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067
CALM ALPHA BETA  SEPT CALM ALPHA BETA  OCT CALM ALPHA BETA  OCT CALM ALPHA BETA  NOV CALM ALPHA BETA	0.0124438 2.48811 0.462 0.0132299 2.41943 0.364 0.0126304 2.27872 0.304 0.0165387 2.04331 0.332 0.019839 1.89606	0.0102642 2.51904	0.00772346 2.50774	0.00704514 2.46792	0.0083044 2.34257	0.00730812 2.43652	0.013981 2.27503 0.302 0.0184358 2.19281 0.29 0.0155229 2.25163 0.285 0.0129634 2.16139	0.0153152 2.37067

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# OKINAWA RYUKYU IS/NAHA AB

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.052 0.0118641 1.75528		0.00199466	0.027 0.00437969 2.08266	0.00182496	0.000279616	0.036 0.00650491 1.91571	0.0116203
FEB								
CALM ALPHA BETA	0.039 0.00898831 1.92764	0.045 0.0109457 1.84515	0.00179006	0.00220315	0.000114445	0.013 0.000147772 3.2943	0.00425631	0.00755896
MARCH								
CALM ALPHA BETA	0.077 0.0120805 1.91195	0.072 0.0152997 1.81216	0.059 0.0141347 1.81509	0.019 0.00253687 2.39172	0.017 0.000209701 3.24903	0.006 0.00115428 2.64975	0.03 0.00533463 2.13524	0.049 0.0100682 1.93964
APRIL								
CALM ALPHA BETA	0.061 0.00909931 2.07476	0.0109534	0.00714472	0.021 0.000508088 3.02078	0.000179248	0.007 0.000286748 3.19415	0.022 0.00211487 2.57573	0.053 0.00798528 2.13551
MAY						•		
CALM ALPHA BETA	0.098 0.00691429 2.28203	0.00833858	0.00407457		0.000388221	0.009 0.000517533 3.05377	0.00114557	0.00518751
JUNE								
CALM ALPHA BETA	0.065 0.00553468 2.30364	0.00611654	0.00403397	0.000721598	0.000231413	0.015 0.000293465 3.20702	0.00142019	0.00494119
JULY								
CALM ALPHA BETA	0.081 0.0111688 1.99805	0.0117599	0.00873317	0.00108004	.000071197B	0.009 0.00027117 3.23066	0.00232624	0.0109282
AUG								
CALM ALPHA BETA	0.142 0.0350415 1.49871		0.024519	0.00109808	0.000142718	0.015 0.000244888 3.24744	0.00648156	
SEPT								
CALM ALPHA BETA	0.169 0.0333878 1.55206	0.0309201	0.0224095	0.000943914	0.00119198	0.00199732	0.058 0.0101775 1.98981	0.0195699
ост								•
CALM ALPHA BETA	0.066 0.0171158 1.77418	0.0153402	0.0107107	0.000978437	0.000379592	0.009 0.00043372 2.94203	0.00374509	0.0116831
NOV								
CALM ALPHA BETA	0.052 0.00916915 1.94657	0.06 0.0101423 1.90147	0.037 0.00921615 1.92708	0.017 0.00117793 2.62655	0.004 0.000309458 3.05849	0.008 0.00036225 3.00663	0.027 0.0030306 2.2918	0.044 0.00156246 2.55546
DEC								
CALM ALPHA BETA	0.0137966	0.00277584	0.00178722	0.028	0.012	0.009 0.000193426 3.23714	0.027	0.00240911

# PATRICK AFB

NAL	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA	0.144		0.0207719	0.0149602	0.00689782	0.008 0.00636197 2.2796	0.0142327	0.0251977
BETA	1.73533	1./1181	1.89513	1.97301	2.24770	2.2770	2.04075	110401
FEB				•				
CALM ALPHA BETA	0.087 0.0137361 1.98198	0.091 0.0198152 1.82079	0.104 0.0234738 1.75301	0.036 0.0131303 1.9369	0.00638014	0.00365836	0.0116724	0.0163011
MARCH								
CALM ALPHA BETA	0.088 0.0174467 1.89107	0.0211377	0.0121994	0.00793556	0.002 0.00209467 2.63433	0.000270817	0.023 0.0036105 2.50455	0.056 0.00985285 2.14573
APRIL								
CALM ALPHA BETA	0.039 0.00652933 2.34655	0.067 0.00933713 2.24447			0.000123505	0.000070003 4.04658	0.00202636	0.0052181
MAY								
CALM ALPHA BETA	0.051 0.0147008 2.02482			0.00623991	0.000579397	0.008 0.000338469 3.42557		
JUNE								
CALM ALPHA BETA	0.091 0.0179249 2.09953	0.149 0.0370111 1.82712		0.0152158	0.00114852	0.000440598	0.00363528	0.0088936
JULY								
CALM ALPHA BETA	0.137 0.0228293 2.17712	0.185 0.0381996 2.01951			0.000888418	0.00200332	0.0101447	
AUG								
CALM ALPHA BETA	0.159 0.0319477 2.11126	0.252 0.0349593 2.03485		0.00549736	0.000600864	0.011 0.000842141 3.30119		0.0119633
SEPT								
CALM ALPHA BETA	0.089 0.0164422 2.07077	0.137 0.0230435 1.9955	0.189 0.0200969 2.05767		0.00214072	0.0012516	0.043 0.00600268 2.43254	
ОСТ								
CALM ALPHA BETA	0.066 0.0156052 1.83854	0.105 0.0167245 1.80411	0.087 0.0198322 1.76678		0.00280403	0.000464124	0.00946945	0.0101621
NOV								
CALM ALPHA BETA	0.096 0.0150962 1.94644	0.121 0.0155973 1.9239	0.108 0.0184942 1.8536	0.028 0.00808215 2.16168	0.009 0.00434309 2.39368	0.006 0.00563043 2.33575	0.05 0.0129966 2.0678	0.081 0.0114362 2.10224
DEC								
CALM ALPHA BETA	0.121 0.0324311 1.68322	0.133 0.0317483 1.67074	0.125 0.0336404 1.65365	0.03 0.0104473 2.14332	0.011 0.00581869 2.35076			0.113 0.0182744 1.9449

#### SAIGON VIETNAM/TAN SON NHUT APT

JAN	0-2	3-5	0-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.053	0.104 0.0216412 2.74136	0.052	0.005	0 000390227	0.00145525	0.000714636	0.00333125
FEB CALM ALPHA BETA	0.055 0.00551345 3.16753	0.118 0.0159179 2.77523		0.000698047	0.000491009	0.00178808	0.000103708	0.000400054
MARCH CALM ALPHA	0.026 0.00305394		0.0139246	0.000154711	0.000178333	0.001 .0000318911	.0000120658	0.001 0.000118466
BETA APRIL	3.49738			/=:		4.91875		4.84819
ALPHA BETA	0.00458239 3.25362		0.0135084 2.68406	0.000343513	0.000775097	0.000398975 3.49095	.0000216073	
CALM ALPHA BETA	0.105 0.0165428 2.77257	0.096 0.0258776 2.57301	0.056 0.0195182 2.55677	0.00134856	0.00215646	0.003 0.000278139 4.13359	0.00310569	0.00461607
CALM ALPHA BETA	0.099 9.011343 2.87655	0.142 0.0130341 2.9216		0.000594636		0.00122338	0.00257799	0.0068063
JULY CALM ALPHA BETA	0.098 0.0143435 2.58865			0.00135597	0.000220477	0.000366844	0.00539484	0.00919223
AUG CALM ALPHA	0.121 0.0165345		0.074 0.017693			0.007 0.00209553	0.026 0.00418083	
SEPT CALM	2.46895	2.35629	2.41562		2.72889			
BETA OCT	0.00800532 3.0521	0.0170289 2.65999				0.00052003 3.73226		
CALM ALPHA BETA	0.162 0.0207577 2.70228	0.181 0.027357 2.60948	2.46655	0.00119939 3.81952	4.05423	0.00125868 3.62582	0.00542069 3.14718	0.0201943 2.59783
CALM ALPHA BETA	0.14 0.026655 2.61156	0.158 0.034852		0.006	0.004	0.005 0.00104975 3.87302	0.018 0.00398807	0.051
CALM ALPHA BETA	0.081 0.0193784 2.749	0.115 0.0232136 2.70209	0.059 0.0173979 2.65742	0.006 0.00169598 3.67039	0.005 0.000522275 4.25728	0.002 0.000323161 4.53265		0.046 0.0058132 3.27194

# PARAMETERS FOR WEIBULL MODELS OF WINDSPEED SCOTT AFB ILLINOIS/BELLEVILLE

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.113 0.0173144 1.83826	0.125 0.0162003 1.86842	0.0163417	0.049 0.00934252 2.00556	0.03 0.00642512 2.11073	0.00860088	0.0171562	0.0172296
FEB								
CALM ALPHA BETA	0.119 0.0147449 1.91344	0.118 0.014944 1.90677	0.105 0.0115903 2.02203	0.034 0.00794972 2.05951	0.019 0.00656925 2.06777		0.083 0.0149687 1.8509	
MARCH								
CALM ALPHA BETA	0.12 0.0133781 1.94211	0.119 0.0156601 1.87133	0.076 0.0132933 1.89603	0.018 0.00432089 2.19055	0.016 0.00332703 2.2201	0.02 0.00389861 2.18901	0.057 0.00932567 1.99632	0.095 0.0126581 1.92039
APRIL							*	
CALM ALPHA BETA	0.123 0.0137716 1.97765	0.128 0.013707 2.00102	0.092 0.0102892 2.02702				0.063 0.00761503 2.11145	
MAY								
CALM ALPHA BETA	0.266 0.0250273 1.87473		0.141 0.0139815 2.06002	0.042 0.0051694 2.30891	0.00429348		0.0134581	
JUNE								
CALM ALPHA BETA	0.301 0.0297955 1.92406	0.312 0.0330187 1.89855	0.166 0.0186493 2.02382	0.052 0.0066297 2.31799	0.029 0.00366436 2.49662		0.118 0.0142474 2.14001	0.0298343
JULY								
CALM ALPHA BETA	0.396 0.0457332 1.77602	0.405 0.0395369 1.88091	0.244 0.0323109 1.89094	0.0114982	0.0088542	0.00837418		0.0409994
AUG								
CALM ALPHA BETA	0.403 0.0491734 1.74077	0.396 0.0480637 1.78696			0.051 0.00700334 2.39264			
SEPT								
CALM ALPHA BETA	0.348 0.0376841 1.80688	0.357 0.038722 1.81362	0.247 0.0321126 1.83793		0.035 0.00568256 2.35263	0.049 0.00740951 2.29965	0.022508	
OCT								
CALM ALPHA BETA	0.298 0.0288232 1.85842	0.303 0.0344058 1.78705	0.227 0.0277608 1.86192	0.064 0.00783339 2.21503		0.062 0.00680235 2.28818	0.0179817	0.267 0.0211127 1.9657
NOV								
CALM ALPHA BETA		0.21 0.0202293 1.83543	0.173 0.0195755 1.84794	0.055 0.00875677 2.02559	0.028 0.00554729 2.13923	0.053 0.00884415 2.04293	0.137 0.012558 1.99841	0.0127714
DEC								
CALM ALPHA BETA	0.132 0.0133413 2.00183	0.015267	0.119 0.016208 1.91837	0.039 0.00830916 2.08607	0.00456679	0.0084886	0.0150018	0.014263

# SHEMYA ISLAND APT ALASKA

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.032		0.02 0.0020438 2.04769	0.02 0.00123432 2.20408	0.018 0.001006 2.26982	0.016 0.00133446 2.18313	0.016 0.00147572 2.15133	0.021 0.00122509 2.2116
FEB								
CALM ALPHA BETA	0.027 0.00137525 2.17226	0.025 0.00148802 2.13637	0.00213108	0.00134096	0.00122801	0.00123114	0.017 0.00149191 2.14524	0.00109628
MARCH								
CALM ALPHA BETA	0.024 0.00187079 2.07794	A AA151777	0 00125974	0.022 0.0012193 2.21641	0.00130162	0.00114832	0.022 0.00128006 2.19487	0.027 0.00132112 2.18252
APRIL								
CALM ALPHA BETA	0.024 0.00199528 2.14074	0.00207735	0.00162102	0.00112404	0.009 0.000733437 2.43315	0.000173976	0.013 0.00150066 2.22687	0.00210901
MAY								
CALM ALPHA BETA	0.033 0.00241169 2.14864	0.00201004	0.00163308	0.000859877	0.000556231	0.000705539	0.01 0.00133373 2.3361	0.029 0.00246081 2.14454
JUNE								
CALM ALPHA BETA	0.044 0.0037167 2.16487	0.00456043	0.0031119		0.00124703	0.000262177	0.00206335	0.00336047
JULY								
CALM ALPHA BETA	0.035 0.00423628 2.13664	0.00380702	0.00368436	0.00198421	0.007 0.00150133 2.47205	0.00194114	0.00276955	0.033 0.00457395 2.10537
AUG								
CALM ALPHA BETA	0.028 0.00580755 2.00327	0.00535571	0.00354129		0.00154066	0.00167376	0.012 0.00356825 2.16012	
SEPT								
CALM ALPHA BETA	0.04 0.0038327 2.02737	0.00334263	0.00280493	0.013 0.00175183 2.27452	0.00131167	0.001381	0.00287495	
OCT								
CALM ALPHA BETA	0.02 0.00179256 2.13365	0.00159574	0.00160285	0.011 0.000179879 2.93431	0.000148146	0.000633805	0.000240496	0.00221207
NOV								
CALM ALPHA BETA	0.000898774	0.000819961	0.000970991	0.013	0.011	0.007	0.014 0.000718586 2.35549	0.000917055
DEC								
CALM ALPHA BETA	0.032 0.000971073 2.27999	0.00108373	0.00119181	0.03 0.00124455 2.20772	0.000897583	0.000770583	0.032 0.000899505 2.30275	0.039 0.00072644 2.36771

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THULE AB GREENLAND

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18~20	21-23
CALM ALPHA BETA	0.07 0.00623507 2.42516	0.071 0.00557853 2.49347	0.072 0.00463783 2.56303		0.064 0.00795681 2.34524		0.073 0.00915836 2.28549	0.076 0.00620278 2.42608
FEB								
CALM ALPHA BETA	0.071 0.00946208 2.24051	0.064 0.0076103 2.3549	0.084 0.00889649 2.27039			0.062 0.00892849 2.27486	0.066 0.00589568 2.48897	
MARCH								
CALM ALPHA BETA	0.071 0.00679502 2.48811	0.06 0.00836015 2.37861	0.064 0.0103741 2.2848	0.087 0.0131852 2.23785	0.116 0.0334729 1.84976	0.103 0.0264317 1.90846	0.08 0.008053 2.42123	0.089 0.0046302 2.64548
APRIL								
CALM ALPHA BETA	0.06 0.00671208 2.48059	0.065 0.00784662 2.43498	0.12 0.0173028 2.09075	0.261 0.0740922 1.43795	0.315 0.138763 1.15618	0.283 0.108801 1.23029	0.158 0.0248652 2.02462	0.084 0.00884906 2.39171
MAY								
CALM ALPHA BETA	0.162 0.0393116 1.67378	0.168 0.0448043 1.63604	0.203 0.0730008 1.39707		0.126 0.0617193 1.44184		0.15 0.0633054 1.40103	
JUNE						Y		
CALM ALPHA BETA	0.253 0.110082 1.21756	0.256 0.134555 1.13941	0.127 0.0737855 1.47389	0.056 0.0320219 1.77932	0.023 0.01597 2.05996	0.037 0.0255145 1.81162	0.064 0.02474 1.88373	0.167 0.0711911 1.40893
JULY								
CALM ALPHA BETA	0.322 0.120923 1.17147	0.334 0.149102 1.08735	0.187 0.0940882 1.34159	0.059 0.0381648 1.75712	0.0221549	0.032 0.0207567 2.0305	0.088 0.0384601 1.78189	0.233 0.106647 1.25364
AUG								
CALM ALPHA BETA	0.29 0.107678 1.21392	0.288 0.110721 1.14983	0.309 0.105192 1.1359	0.141 0.0967349 1.18897	0.084 0.0504122 1.50383	0.076 0.0572536 1.46686	0.18 0.0950592 1.25166	0.321 0.121473 1.11478
SEPT								
CALM ALPHA BETA	0.134 0.0312916 1.74395	0.126 0.0292885 1.77631	0.153 0.0406294 1.6398	0.196 0.0631024 1.39077	0.177 0.0674681 1.36098		0.199 0.0720051 1.34255	0.153 0.0360958 1.68982
ост								
CALM ALPHA BETA	0.057 0.00594289 2.4523	0.057 0.00742545 2.32243	0.055 0.00687441 2.37031	0.048 0.00723594 2.31732	0.053 0.00949122 2.19746	0.05 0.00735428 2.32744	0.057 0.00826962 2.27549	0.043 0.0102292 2.17211
NOV								
CALM ALPHA BETA	0.00743886	0.00777349	0.053 0.00575997 2.45217	0.0101997	0.058	0.062	0.059	0 00440044
DEC								
CALM ALPHA BETA	0.061 0.00823614 2.29052	0.058 0.00881864 2.2916	0.067 0.00558216 2.50172	0.074 0.00719847 2.37267	0.065 0.00774962 2.34457	0.07 0.00782321 2.33244	0.07 0.00476789 2.55438	0.055 0.00611402 2.41504

#### TORREJON AB SPAIN/MADRID

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM	0.335	0.345					0.251	0.208
ALPHA	0.102288				0.0709032		0.0589319	0.0850885
BETA	1.24834	1.34935	1.25533	1.29514	1.25809	1.40018	1.47128	1.33334
FEB								
CALH	0.273	0.309	0.326	0.244			0.187	
ALPHA	0.0594148	0.0956994	0.0731329				0.0357399	
BETA	1.55151	1.35848	1.45773	1.38655	1.35013	1.40136	1.07642	1.67130
MARCH								
CALM	0.190	0.248	0.236	0.149	0.084	0.075	0.124	0.183
ALPHA	0.198 0.0632087 1.45743	0.0713064	0.0813828	0.055733	0.0305166	0.0204858	0.0303836	0.0409412
BETA	1.45743	1.42113	1.38192	1.35886	1.52168	1.66699	1.67089	1.61348
APRIL								
CALH		0.249	0.25				0.088	
BETA	0.0403626		0.0560594	0.0340323			0.0180446	
BETH	1.65665	114750	1.01.03	1.00101	110000	1170703	1.02.103	
HAY								
CALM	0.267	0.309	0.271	0.131	0.071	0.059	0.108	0.197
ALPHA	0.0427506	0.0633806	0.0818888				0.0193435	0.0304523
BETA	1.80579	1.72415	1.43275		1.83862		1.93515	1.87917
JUNE								
CALH	0.244	0.349	0.263			0.038		
ALPHA BETA	0.064038	0.0920369	0.105352	0.0567721	0.013374 2.15236	0.00816054 2.32515	0.0230885	0.0354545
BETH	1.04043	1.60288	1.3/232	1.80077	2.13236	2.32313	1.73217	1.72347
JULY								
CALH	0.244	0.333	0.266	0.084	0.041	0.07/	0.000	0.101
ALPHA	0.054587	0.106043	0.0692603	0.0388457		0.036	0.089	0.184
BETA	1.65692	1.50059	1.60833	1.87121	2.19844		2.05766	1.69653
								-
AUG	- 14: 4: -*.							
CALM	0.242	0.298	0.242		0.045	0.038	0.109	0.244
ALPHA BETA	0.0620746	0.0924156	0.0913923			0.00900287	0.0248328	0.0518355
BEIM	1.6224	1.57501	1.51246	1.59911	2.07248	2,23285	1.88385	1.62902
SEPT								
CALM	0.321	0.366	0.341	0.155	0.050	0.056	0.161	0.268
ALPHA	0.0699532	0.104254	0.10442	0.0893264	0.0220355		0.0363418	
BETA	1.68642	1.55832	1.51124	1.40613	1.91492	2.06021	1.84698	1.87666
ОСТ		•						
CALM	0.293	0.323	0.311	0.184			0.25	
BETA	1.60451	1.60603	0.0906614	0.0860152				
	1,00431	1.00003	1,412/3	1.20138	1.47082	1.61098	1.55999	1.71683
NOV								
CALH	0.279	0.298	0.331	0.268	0.166	0.187	0.243	0.248
ALPHA	0.069113	0.0699998	0.0793862	0.0766788	0.0491109	0.0392856		
BETA	1.47473	1.485	1.41532	1.28365	1.42803	1.58246		1.51173
DEC								
ALPHA	0.358		0.387	0.299			0.253	0.297
BETA	1.43229			1.30668	1.30017		0.0523799	0.0651876

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#### TRIPOLI LIBYA/WHEELUS AB

JAN	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.032 0.0054576 2.26045	0.025 0.00471132 2.29926	0.034 0.00454247 2.30606	0.03 0.00349835 2.31598	0.027 0.000840185 2.74064	0.05 0.00605272 2.12371	0.11 0.0128379 1.9099	0.074 0.00810858 2.12103
FEB								
CALM ALPHA BETA	0.089 0.00795789 2.12655	0.084 0.00660693 2.19191	0.084 0.00643525 2.18693	0.055 0.00586805 2.12597	0.017 0.000703821 2.84073	0.037 0.00321748 2.39352	0.097 0.011448 1.99955	0.087 0.00916403 2.1164
MARCH								
CALM ALPHA BETA	0.084 0.00897666 2.11533	0.081 0.00738223 2.17789	0.07 0.00783343 2.15139	0.03 0.00395684 2.28116	0.013 0.000118565 3.47008	0.036 0.00230272 2.45438	0.088 0.0109769 1.95324	0.099 0.0113872 2.01587
APRIL								
CALM ALPHA BETA	0.096 0.0104462 2.02356	0.101 0.00886233 2.11104	0.107 0.00777446 2.10794	0.032 0.00268331 2.3884	0.009 0.000187371 3.26253	0.021 0.000234864 3.16184	0.058 0.00625888 2.04101	0.09 0.0110404 1.93992
MAY								
CALM ALPHA BETA	0.157 0.0166467 1.9621	0.18 0.0171124 1.94335	0.122 0.0119932 2.05812	0.024 0.00109908 2.7487	0.01 .0000976566 3.52808	0.016 0.000254559 3.15777	0.068 0.00713184 2.07839	0.139 0.0135189 2.02433
JUNE								
CALM ALPHA BETA	0.184 0.0142832 2.08095	0.205 0.0142616 2.14407	0.161 0.0116263 2.14175	0.029 0.000655643 3.00254	0.009 .0000523688 3.79424	0.011 0.000150201 3.36416	0.05 0.00382845 2.30434	0.137 0.00900948 2.15976
JULY	\ .							
CALM ALPHA BETA	0.21 0.019456 2.13447	0.259 0.01324 2.36572	0.192 0.012844 2.26388	0.033 0.000520739 3.15922	0.005 .0000184484 4.29938	0.005 .0000576245 3.83812	0.039 0.000585827 3.07025	0.149 0.00820997 2.36051
AUG								
CALM ALPHA BETA	0.2 0.0149751 2.33335	0.0125493	0.014713	0.00141326	.0000273022	.0000120808	0.019 0.00113396 2.95821	0.00822858
SEPT								
CALM ALPHA BETA	0.142 0.0204152 2.00143	0.0133692	0.0102583	0.00376253	0.000171087	.0000261032	0.031 0.00109884 2.75472	0.0108236
ост								
CALM ALPHA BETA	0.106 0.0113146 2.19122	0.104 0.00934421 2.27543	0.108 0.00771005 2.36668	0.065 0.00494694 2.43218	0.024 0.00043506 3.12265	0.036 0.00196407 2.66964	0.091 0.0081789 2.17623	0.127 0.0134336 2.04082
NOV								
CALM ALPHA BETA	0.07 0.00599306 2.41517	0.061 0.0038351 2.60502	0.057 0.00444383 2.52626	0.055 0.00378799 2.49229	0.028 0.00304153 2.50967	0.061 0.06457661 2.44402	0.098 0.015685 1.99233	0.083 0.0117384 2.13641
SEC								
CALM ALPHA BETA	0.052 0.00358499 2.67806	0.047 0.0016967 2.61787	0.037 0.00271163 2.6072	0.054 0.00462966 2.27011	0.05 0.00431108 2.21531	0.075 0.0114752 1.93589	0.122 0.0168493 1.83202	0 00704048

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#### WAKE ISLAND NAS/PACIFIC IS

MAL	0-2	3-5	6-8	9-11	12-14	15-17	18-20	21-23
CALM ALPHA BETA	0.04 0.00170099 2.45741	0.00203167	0.00194544	0.023 0.00145227 2.52453	0.008 0.000904365 2.72202	0.004 0.00143696 2.54845	0.00176298	0.00165082
FEB								
CALM ALPHA BETA	0.029 0.00120861 2.57904	0.00128004	0.035 0.00175085 2.47542	0.00124677	0.00121658		0.00159438	0.00121634
MARCH								
CALM ALPHA BETA	0.013 0.000956595 2.63505	0.00114727	0.0010477	0.000791147	0.003 0.000817055 2.73	0.00116171		0.00115298
APRIL								
CALM ALPHA BETA	0.009 0.000199094 3.15443	0.000325122	0.00037821	0.000292662	0.005 0.000219368 3.11831	0.000239341	0.000228205	0.000157253
MAY								
CALM ALPHA BETA	0.006 0.00243376 2.29553	0.00266911	0.000789502		0.001 0.000449824 2.94557		0.000603002	
JUNE								
CALM ALPHA BETA	0.018 0.000790537 2.91933	0.00312181	0.00105785	0.000517918	0.000516125	0.006 0.000667327 3.00025	0.000526361	0.000640086
JULY								
CALM ALPHA BETA	0.01 0.000308149 3.26101	0.000439432	0.000440631	0.000240035	0.00025473	0.000400612	0.000304351	0.000287296
AUG								
CALM ALPHA BETA	0.009 0.00084486 2.91574	0.0007279	0.00137723		0.003 0.000470286 3.14418	0.000535321	0.000891159	0.000677989
SEPT								
CALM ALPHA BETA	0.03 0.000944798 2.84062	0.00102639	0.00150874		0.000615344	0.00072387	0.000603281	0.000604499
OCT								
CALM ALPHA BETA	0.025 0.000858365 2.74055	0.000992249	0.017 0.000916101 2.72437	0.000665955	0.000679118	0,00100738	0.000860519	0.000611297
NOV								
CALM ALPHA BETA	0.000843593	0.000958212	0.000805429	0.000635459	0.007 0.000619577 2.77771	0.000711425	0.000430339	0.000477663
DEC								
CALM ALPHA BETA	0.000834783	0.024 0.00100924 2.65006	0.000775885	0.000923019	0.007 0.00115823 2.59097	0.000958777	0.000765223	0.000702403

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